Nuclear Facility Deactivation and Decommissioning (D&D), Remainder of Hanford (RL-0040); and River Corridor Closure Project (RL-0041)

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U Plant Ancillary Facilities

Overview

This section addresses Project Baseline Summary (PBS) RL-0040, *Nuclear Facility Deactivation and Decommissioning (D&D), Remainder of Hanford*. There are three major components to this work scope:

- Deactivation and Decommissioning (M. B. Lackey);
- Waste Site Remediation (M. B. Lackey); and
- Reliability Projects (M. M. Belles)

This section also includes PBS RL-0041, *Nuclear Facility D&D, River Corridor Closure Project*, until this work scope transitions to the River Corridor Contractor.

NOTE: Unless otherwise noted, all information contained herein is as of the end of October 2004.

Notable Accomplishments

PBS RL-0040, Nuclear Facility D&D, Remainder of Hanford

Deactivation and Decommissioning:

U Plant Demolition Project: FH received approval from the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology on the Final Feasibility Study and the Proposed Plan for Remediation of the 221-U Facility (Canyon Disposition Initiative). The stakeholder notification was issued on November 10, 2004, announcing the public comment period from December 13, 2004, through January 31, 2005.

The U Plant Ancillary Structures Action Memorandum was forwarded to the Regulators on November 8, 2004.

FH initiated demolition preparation and asbestos abatement activities on several U Plant Ancillary structures.

Central Plateau Closure Project: FH briefed the Hanford Advisory Board Committee and a subcommittee called the *Committee of the Whole* on the plan for Central Plateau Closure.

Waste Site Remediation:

U Plant Regional Closure: FH completed a successful barrier performance monitoring Data Quality Objective workshop during late October. This work supports Performance Objective 1a-1.

BC Cribs and Trenches: Fate-and-transport modeling for the 216-B-26 Trench was completed October 29, 2004. The modeling incorporates detailed soil stratigraphy and provides a very good match with sampling previously performed at the trench. Based on the modeling, groundwater impacts are mitigated by placement of a barrier that limits infiltration when evaluated at a compliance point 100 meters downstream from the trench.

Notable Accomplishments, continued

200 Area Remedial Investigation/Feasibility Study Work: FH submitted Draft A of the Feasibility Study and Proposed Plan to RL on October 15, 2004, for their transmittal to EPA to meet Tri-Party Agreement Milestone M-015-40C, "Submit Draft A 200-CW-5 FS/PP," due October 31, 2004. The document was submitted to EPA on October 29, 2004, meeting the milestone.

Reliability Projects:

Hanford Site Barricade Improvements: Project L-403 construction was completed on October 22, 2004. The project installed a new emergency generator and lighting improvements at the Wye Barricade, a new emergency generator at the Yakima Barricade, and lighting improvements at the Rattlesnake Barricade.

Radio System Narrowbanding: Reliability Projects completed Hanford Radio System narrowbanding on October 29, 2004. This activity marks 85 percent completion of Project L-347 which modifies or replaces existing radio systems to ensure Hanford radio systems operate in compliance with the National Telecommunication and Information Administration Federal Narrowband Mandate.

PBS RL-0041, Nuclear Facility D&D, River Corridor Closure Project

300 Area Treated Effluent Disposal Facility (TEDF): The 300 Area TEDF received 16,000 gallons of an expected 40,000 gallons of wastewater from the 222-S laboratory. This transfer of wastewater was necessary for the continued operations of the laboratory. This wastewater is normally discharged to the 200 Area TEDF; however, contaminate levels were too high to allow the discharge to proceed. It took an outstanding team approach between contractors CH2M HILL and FH to develop and implement a treatment alternative without impacting the mission of the 222-S laboratory.

Anticipated FY 2005 FH Funds ($M)

		FY 2005 Anticipated Funding w/Carryover
RL-0040	Nuclear Facility D&D, Remainder of Hanford	$ 89.7
RL-0041	Nuclear Facility D&D, River Corridor Closure	$ 19.4
	Total	**$ 109.1**

FY 2005 Schedule/Cost Performance ($M)

		Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance $	Schedule Variance %	Cost Variance $	Cost Variance %	Budget At Completion
RL-0040	Nuclear Facility D&D, Remainder of Hanford	$4.5	$3.8	$3.1	-$0.7	-15.2%	$0.7	17.9%	$78.4
RL-0041	Nuclear Facility D&D, River Corridor Closure	$1.0	$1.0	$0.7	$0.0	0.9%	$0.3	31.1%	$16.5
	Total	**$5.4**	**$4.8**	**$3.8**	**-$0.7**	**-14.1%**	**$1.0**	**20.6%**	**$95.0**

Numbers are rounded to the nearest $M.

Schedule Performance (-$0.7M/-14.1%): The positive schedule variance +$0.1M for Central Plateau D&D and surveillance and maintenance are within established thresholds.

The Waste Site Cleanup unfavorable schedule variance (-$0.2M) is primarily due to a late start for planning/mobilization for the 200-PW-1 A-8 investigation and delays to beginning the 200-PW-2 S-7 borehole construction because of resource availability and training. There have also been delays in completing the U Plant Regional Closure Focused Feasibility Study/Proposed Plan and Record of Decision support because of additional, extended regulator reviews.

The unfavorable schedule variance (-$0.6M) in Reliability Projects is primarily due to delays in initiating new starts due to continuing resolution and other funding issues (-$0.7M) offset by +$0.1M favorable progress in completing FY 2004 carryover projects.

The schedule variance for River Corridor Closure Project (PBS RL-0041) is within established thresholds.

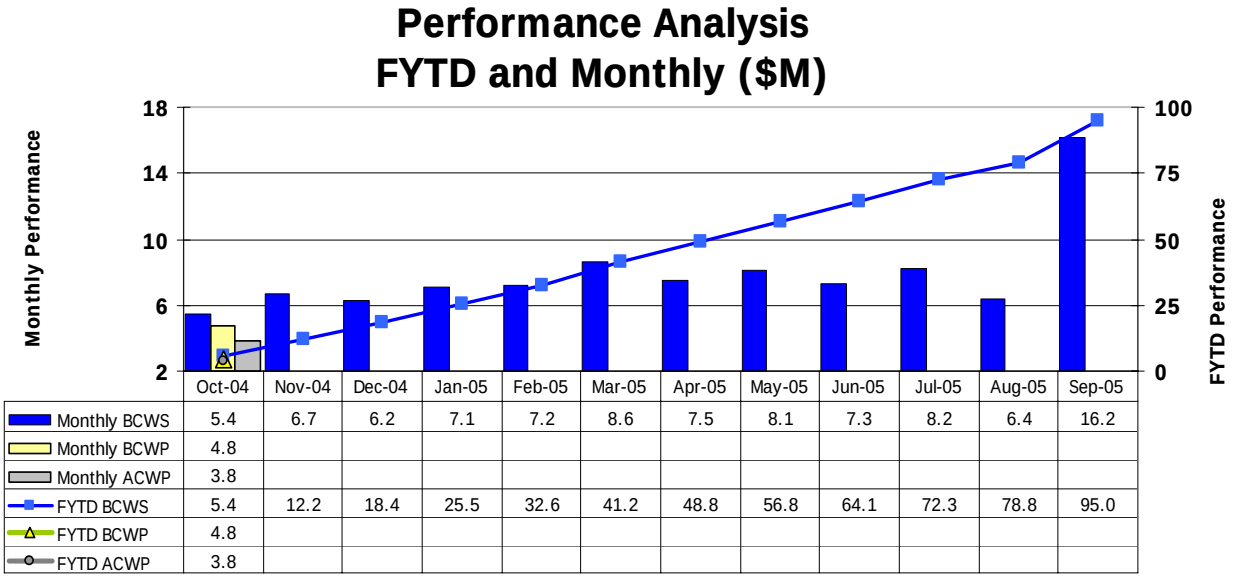
Cost Performance (+$1.0M/+20.6%): The favorable cost variance (+$0.6M) for Central Plateau D&D and surveillance and maintenance is due to the efficiencies in the performance of the U-Plant characterization and demo preparation activities along with claiming completion of the gap study.

The Waste Site Cleanup unfavorable cost variance (-$0.1M) is the result of additional subcontractor costs to support the U Plant Regional Closure Record of Decision process, decision documents, and barrier design. Unplanned labor for planning/mobilization and materials/equipment replacement for S-7 borehole construction have also increased costs.

The +$0.2M cost variance for Reliability Projects and Closure Services is within established thresholds.

The favorable cost variance ($0.3M) for River Corridor Closure Project (PBS RL-0041) is the result of efficiencies realized in the Uranium Disposition Project by changing the disposition path from Environmental Restoration Disposal Facility to the Mixed Waste Trench. Contributing to the favorable condition are the underruns occurring in the 300 Area Liquid Effluent Facilities materials and contracts as a result of integration with the Waste Encapsulation and Storage Facility and 200 Area Liquid Effluent Facilities.

FY 2005 Schedule/Cost Performance, continued



	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05
Monthly BCWS	5.4	6.7	6.2	7.1	7.2	8.6	7.5	8.1	7.3	8.2	6.4	16.2
Monthly BCWP	4.8											
Monthly ACWP	3.8											
FYTD BCWS	5.4	12.2	18.4	25.5	32.6	41.2	48.8	56.8	64.1	72.3	78.8	95.0
FYTD BCWP	4.8											
FYTD ACWP	3.8											

Milestones

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	TRP-03-242 M-015-40C	Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group FS & Submit	HQ	10/31/04	10/29/04		Completed ahead of schedule
RL-0040	WMG-05-001 M-091-40L-004	M-91-40L.1.D Submit Quarterly Burial Ground Vent and substrate Sample	HQ	12/01/04			On schedule
RL-0040	TRP-03-139 M-013-00O	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	HQ	12/31/04			On schedule
RL-0040	WMG-04-009 M-091-40K	M-91-40K Update 218-E-12B SAP	HQ	01/15/05	08/24/04		Completed ahead of schedule
RL-0040	WMG-05-010 M-091-40J	M-91-40J UPDATE 218-W-3A SAP	HQ	03/01/05			On schedule
RL-0040	WMG-05-005 M-091-40L-005	M-91-40L.2.A Submit Quarterly Burial Ground Vent and substrate Sample	HQ	03/01/05			On schedule
RL-0040	WMG-05-009 M-091-40I	M-91-40I Update 218-W-4B SAP	HQ	03/01/05			On schedule
RL-0040	WMG-05-006 M-091-40L-006	M-91-40L.2.B Submit Quarterly Burial Ground Vent and substrate Sample	HQ	06/01/05			On schedule
RL-0040	WMG-05-007 M-091-40L-007	M-91-40L.2.C Submit Quarterly Burial Ground Vent and substrate Sample	HQ	09/01/05			On schedule
RL-0040	TRP-03-260 M-015-46A	200 Area Chemical Lab Waste OUs Remedial Investigation Report.	HQ	10/31/05			On schedule
RL-0040	TRP-03-248 M-020-39	Submit 216 S-10 Pond and Ditch Closure Plan to Ecology	HQ	11/30/05			On schedule
RL-0040	TRP-03-245 M-015-39C	Submit 200-CS-1 Chemical Sewer Group FS and Submit PP/Proposed	HQ	11/30/05			On schedule

Milestones, continued

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	WMG-06-001 M-091-40L-008	M-91-40L.2.D Submit Quarterly Burial Ground Vent and substrate Sample	HQ	12/01/05			On schedule
RL-0040	TRP-04-324	Issue Action Memorandum for U Plant Ancillary Facilities	RL	12/31/05			On schedule
RL-0040	TRP-04-323	Issue Record-of-Decision for Canyon Disposition Initiative	RL	12/31/05			On schedule
RL-0040	TRP-03-257 M-020-33	Submit Closure/Post Closure Plans for 216-A-10 Crib, Etc.	HQ	12/31/05			On schedule
RL-0040	TRP-03-263 M-015-44A	200-MW-1 OU Remedial Investigation Report	HQ	12/31/05			On schedule
RL-0040	TRP-03-254 M-015-43C	Submit 200-PW-2 OU FS & Proposed Plan/Proposed RCRA Permit Mod	HQ	12/31/05			On schedule
RL-0040	WMG-06-005 M-091-40L-009	M-91-40L.3.A Submit Quarterly Burial Ground Vent and substrate Sample	HQ	03/01/06			On schedule
RL-0040	TRP-04-320	Demolish Ten U Plant Ancillary Facility Structures	RL	03/31/06			On schedule
RL-0040	TRP-04-321	Demolish 10 B Plant Structures	RL	03/31/06			On schedule
RL-0041	TRP-04-325	Package, Ship and Dispose of Remaining N Reactor Fuel	RL	03/31/06			On schedule
RL-0040	WMG-06-006 M-091-40L-010	M-91-40L.3.B Submit Quarterly Burial Ground Vent and substrate Sample	HQ	06/01/06			On schedule
RL-0040	WMG-06-007 M-091-40L-011	M-91-40L.3.C Submit Quarterly Burial Ground Vent and substrate Sample	HQ	09/01/06			On schedule
RL-0040	TRP-03-266 M-015-46B	200 Area Chemical Laboratory Waste OUs Feasibility Study	HQ	09/30/06			On schedule
RL-0040	WDG-06-402	Remediate BC Cribs and Trenches	RL	09/30/06			On schedule
RL-0040	WDG-06-401	Remediation of U Plant Area Waste Sites	RL	09/30/06			On schedule
RL-0040	TRP-04-322	Demolish 12 additional B Plant Structures	RL	09/30/06			On schedule
RL-0041	TRP-04-326 M-092-06-T02	Complete the Disposal/Disposition of Un-Irradiated Metal Fuel	RL	09/30/06			On schedule